



# JOHANNESBURG STOCK EXCHANGE

## Currency Derivatives

### CURRENCY FUTURES DAILY TRADE INFORMATION FOR 09-October-2018

DATE	CONTRACT		OPEN INT	MTM	PREV MTM	HIGH	LOW	DAILY VOLUME		CUMULATIVE VOLUME	
<b>Future</b>											
Oct 2018	CC01	Future	25,000	697.5964	697.5704	0.0000	0.0000	0	0.00		
			<u>25,000</u>					<u>0.00</u>	<u>0.00</u>	<u>25 000.00</u>	<u>7 830 750.00</u>
		<b>Total</b>	<b>25,000</b>					<b>0.00</b>	<b>0.00</b>	<b>25 000.00</b>	<b>7 830 750.00</b>
<b>Future</b>											
Oct 2018	DAEU	Future	34	16.9593	17.0777	0.0000	0.0000	0	0.00		
			<u>34</u>					<u>0.00</u>	<u>0.00</u>	<u>801 328.00</u>	<u>11 965 949 271.80</u>
<b>Option</b>											
Aug 2019	DAEU	17.01 Put	31,200	600.6744	550.5551	0.0000	0.0000	0	0.00		
Aug 2019	DAEU	19.65 Call	62,400	744.9084	777.0497	0.0000	0.0000	0	0.00		
			<u>93,600</u>					<u>0.00</u>	<u>0.00</u>	<u>1 390 587.00</u>	<u>0.00</u>
		<b>Total</b>	<b>93,634</b>					<b>0.00</b>	<b>0.00</b>	<b>2 191 915.00</b>	<b>11 965 949 271.80</b>
<b>Future</b>											
Oct 2018	DAGB	Future	48	19.3471	19.4482	0.0000	0.0000	0	0.00		
			<u>48</u>					<u>0.00</u>	<u>0.00</u>	<u>53 893.00</u>	<u>887 905 331.00</u>
		<b>Total</b>	<b>48</b>					<b>0.00</b>	<b>0.00</b>	<b>261 206.00</b>	<b>887 905 331.00</b>
<b>Future</b>											
Oct 2018	DAUS	Future	4,314	14.7764	14.8802	0.0000	0.0000	0	0.00		
Oct 2018	DAUS	Future	235	14.7804	14.8842	0.0000	0.0000	0	0.00		
Oct 2018	DAUS	Future	70	14.7960	14.9001	0.0000	0.0000	0	0.00		
Oct 2018	DAUS	Future	225	14.8038	14.9080	0.0000	0.0000	0	0.00		
Oct 2018	DAUS	Future	2,500	14.8058	14.9100	0.0000	0.0000	0	0.00		
Oct 2018	DAUS	Future	4,209	14.8077	14.9119	0.0000	0.0000	0	0.00		
Nov 2018	DAUS	Future	55	14.8096	14.9139	0.0000	0.0000	0	0.00		
Nov 2018	DAUS	Future	70	14.8330	14.9377	0.0000	0.0000	0	0.00		
Nov 2018	DAUS	Future	24	14.8370	14.9417	0.0000	0.0000	0	0.00		
Nov 2018	DAUS	Future	308	14.8389	14.9437	0.0000	0.0000	0	0.00		
Nov 2018	DAUS	Future	179	14.8508	14.9557	0.0000	0.0000	0	0.00		

<u>DATE</u>	<u>CONTRACT</u>		<u>OPEN INT</u>	<u>MTM</u>	<u>PREV MTM</u>	<u>HIGH</u>	<u>LOW</u>	<u>DAILY VOLUME</u>	<u>CUMULATIVE VOLUME</u>
Nov 2018	DAUS	Future	461	14.8645	14.9697	0.0000	0.0000	0	0.00
Nov 2018	DAUS	Future	8,824	14.8665	14.9717	0.0000	0.0000	0	0.00
Dec 2018	DAUS	Future	3,672	14.8902	14.9957	0.0000	0.0000	0	0.00
Dec 2018	DAUS	Future	3,714	14.9278	15.0335	0.0000	0.0000	0	0.00
Jan 2019	DAUS	Future	55	14.9318	15.0375	0.0000	0.0000	0	0.00
Jan 2019	DAUS	Future	55	14.9866	15.0927	0.0000	0.0000	0	0.00
Jan 2019	DAUS	Future	1,020	14.9885	15.0947	0.0000	0.0000	0	0.00
Feb 2019	DAUS	Future	70	15.0138	15.1202	0.0000	0.0000	0	0.00
Feb 2019	DAUS	Future	5,787	15.0430	15.1496	0.0000	0.0000	0	0.00
Mar 2019	DAUS	Future	3,731	15.0955	15.2026	0.0000	0.0000	0	0.00
Mar 2019	DAUS	Future	3,029	15.0994	15.2065	0.0000	0.0000	0	0.00
Apr 2019	DAUS	Future	55	15.1072	15.2144	0.0000	0.0000	0	0.00
Apr 2019	DAUS	Future	1,280	15.1617	15.2699	0.0000	0.0000	0	0.00
May 2019	DAUS	Future	55	15.2221	15.3317	0.0000	0.0000	0	0.00
Jul 2019	DAUS	Future	55	15.2825	15.3934	0.0000	0.0000	0	0.00
Aug 2019	DAUS	Future	55	15.3432	15.4553	0.0000	0.0000	0	0.00
Sep 2019	DAUS	Future	55	15.4060	15.5193	0.0000	0.0000	0	0.00
Oct 2019	DAUS	Future	55	15.4649	15.5792	0.0000	0.0000	0	0.00
Oct 2019	DAUS	Future	55	15.5258	15.6404	0.0000	0.0000	0	0.00
Dec 2019	DAUS	Future	55	15.5951	15.7092	0.0000	0.0000	0	0.00
Jan 2020	DAUS	Future	55	15.6623	15.7759	0.0000	0.0000	0	0.00
Jan 2020	DAUS	Future	55	15.7251	15.8383	0.0000	0.0000	0	0.00
Mar 2020	DAUS	Future	55	15.7922	15.9050	0.0000	0.0000	0	0.00
Apr 2020	DAUS	Future	55	15.8594	15.9717	0.0000	0.0000	0	0.00
Apr 2020	DAUS	Future	55	15.9178	16.0297	0.0000	0.0000	0	0.00
Jun 2020	DAUS	Future	1,055	15.9915	16.1029	0.0000	0.0000	0	0.00
Jul 2020	DAUS	Future	84,000	16.1127	16.2234	0.0000	0.0000	0	0.00
			<u>129,657</u>					<u>0.00</u>	<u>0.00</u>
									<u>10 716 906.00</u>
									<u>131 187 232 234.50</u>
<b>Option</b>									
Oct 2018	DAUS	14.88 Put	314	214.4940	169.9655	0.0000	0.0000	0	0.00
Oct 2018	DAUS	14.96 Call	314	86.3588	135.4539	0.0000	0.0000	0	0.00
Oct 2018	DAUS	14.50 Put	20,000	79.4832	62.4970	0.0000	0.0000	0	0.00
Oct 2018	DAUS	13.20 Put	1,630	1.3345	1.5190	0.0000	0.0000	0	0.00
Oct 2018	DAUS	14.00 Call	1,630	800.6954	903.8209	0.0000	0.0000	0	0.00
Oct 2018	DAUS	13.00 Put	500	2.0509	2.3216	0.0000	0.0000	0	0.00
Oct 2018	DAUS	13.80 Put	1,000	19.7085	18.4092	0.0000	0.0000	0	0.00
Oct 2018	DAUS	13.93 Call	500	905.6625	1007.1834	0.0000	0.0000	0	0.00
Oct 2018	DAUS	13.97 Put	600	31.0887	27.8545	0.0000	0.0000	0	0.00
Oct 2018	DAUS	14.25 Put	250	76.1997	60.1604	0.0000	0.0000	0	0.00
Oct 2018	DAUS	14.34 Put	171	99.6822	79.6379	0.0000	0.0000	0	0.00
Oct 2018	DAUS	14.44 Call	171	498.6580	577.8887	0.0000	0.0000	0	0.00
Oct 2018	DAUS	14.45 Call	600	492.0950	570.8089	0.0000	0.0000	0	0.00

<u>DATE</u>	<u>CONTRACT</u>		<u>OPEN INT</u>	<u>MTM</u>	<u>PREV MTM</u>	<u>HIGH</u>	<u>LOW</u>	<u>DAILY VOLUME</u>	<u>CUMULATIVE VOLUME</u>
Oct 2018	DAUS	14.67 Call	250	362.2904	428.8720	0.0000	0.0000	0	0.00
Oct 2018	DAUS	14.82 Put	114	302.1831	255.6337	0.0000	0.0000	0	0.00
Oct 2018	DAUS	14.90 Call	600	257.1883	309.2004	0.0000	0.0000	0	0.00
Oct 2018	DAUS	15.01 Call	114	217.4953	263.6886	0.0000	0.0000	0	0.00
Oct 2018	DAUS	16.47 Call	500	18.0944	25.1441	0.0000	0.0000	0	0.00
Oct 2018	DAUS	17.02 Call	500	6.5910	9.1365	0.0000	0.0000	0	0.00
Nov 2018	DAUS	11.90 Put	1,880	0.1252	0.1549	0.0000	0.0000	0	0.00
Nov 2018	DAUS	13.86 Put	1,880	31.1342	27.4898	0.0000	0.0000	0	0.00
Nov 2018	DAUS	16.81 Call	1,880	15.5341	20.6380	0.0000	0.0000	0	0.00
Nov 2018	DAUS	14.34 Put	171	156.7953	132.3495	0.0000	0.0000	0	0.00
Nov 2018	DAUS	14.50 Call	171	553.2958	626.5259	0.0000	0.0000	0	0.00
Nov 2018	DAUS	10.83 Put	51,000	0.0689	0.0788	0.0000	0.0000	0	0.00
Nov 2018	DAUS	11.67 Put	51,000	0.5459	0.5593	0.0000	0.0000	0	0.00
Nov 2018	DAUS	13.22 Call	51,000	1624.8434	1730.2126	0.0000	0.0000	0	0.00
Nov 2018	DAUS	14.72 Call	5,000	440.4196	503.4137	0.0000	0.0000	0	0.00
Nov 2018	DAUS	14.74 Call	5,000	430.6889	492.7510	0.0000	0.0000	0	0.00
Nov 2018	DAUS	14.89 Call	5,000	363.6877	418.2683	0.0000	0.0000	0	0.00
Nov 2018	DAUS	14.89 Put	15,000	414.7877	364.5683	0.0000	0.0000	0	0.00
Nov 2018	DAUS	14.84 Call	10,000	397.7622	455.4423	0.0000	0.0000	0	0.00
Nov 2018	DAUS	14.62 Call	20,400	527.1393	594.6565	0.0000	0.0000	0	0.00
Nov 2018	DAUS	13.00 Put	500	10.3510	10.1212	0.0000	0.0000	0	0.00
Nov 2018	DAUS	13.80 Put	1,000	63.4682	53.0103	0.0000	0.0000	0	0.00
Nov 2018	DAUS	13.85 Put	600	71.5742	60.1067	0.0000	0.0000	0	0.00
Nov 2018	DAUS	14.08 Call	500	905.3437	993.7425	0.0000	0.0000	0	0.00
Nov 2018	DAUS	14.25 Put	250	167.9362	144.5784	0.0000	0.0000	0	0.00
Nov 2018	DAUS	14.30 Call	600	751.1189	831.1405	0.0000	0.0000	0	0.00
Nov 2018	DAUS	14.80 Call	600	472.8470	533.0670	0.0000	0.0000	0	0.00
Nov 2018	DAUS	14.82 Call	250	463.7381	523.1522	0.0000	0.0000	0	0.00
Nov 2018	DAUS	16.70 Call	500	71.7378	84.9729	0.0000	0.0000	0	0.00
Nov 2018	DAUS	17.31 Call	500	38.2443	46.1676	0.0000	0.0000	0	0.00
Dec 2018	DAUS	15.45 Put	23,000	845.4496	776.5417	0.0000	0.0000	0	0.00
Dec 2018	DAUS	13.90 Put	30,000	91.2733	78.0867	0.0000	0.0000	0	0.00
Dec 2018	DAUS	14.30 Put	30,000	198.4153	172.5889	0.0000	0.0000	0	0.00
Dec 2018	DAUS	14.90 Put	30,000	478.4069	429.7747	0.0000	0.0000	0	0.00
Dec 2018	DAUS	15.30 Put	30,000	738.7101	674.7163	0.0000	0.0000	0	0.00
Dec 2018	DAUS	13.65 Put	20,000	57.2065	47.9808	0.0000	0.0000	0	0.00
Dec 2018	DAUS	13.86 Put	7,500	91.2027	77.9139	0.0000	0.0000	0	0.00
Dec 2018	DAUS	15.08 Call	7,500	408.4684	457.5016	0.0000	0.0000	0	0.00
Dec 2018	DAUS	15.69 Call	20,000	238.6990	269.5905	0.0000	0.0000	0	0.00
Dec 2018	DAUS	13.90 Put	35,000	113.4869	97.8669	0.0000	0.0000	0	0.00
Dec 2018	DAUS	14.30 Put	35,000	227.6294	199.5018	0.0000	0.0000	0	0.00
Dec 2018	DAUS	14.90 Put	35,000	510.2478	461.1930	0.0000	0.0000	0	0.00

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Dec 2018	DAUS	15.30 Put	35,000	766.3007	703.2487	0.0000	0.0000	0	0.00
Dec 2018	DAUS	13.20 Put	1,000	29.0386	27.0407	0.0000	0.0000	0	0.00
Dec 2018	DAUS	13.30 Put	1,000	33.6690	31.1648	0.0000	0.0000	0	0.00
Dec 2018	DAUS	14.66 Call	1,000	632.8929	697.7398	0.0000	0.0000	0	0.00
Dec 2018	DAUS	14.75 Call	1,000	588.6197	650.3161	0.0000	0.0000	0	0.00
Dec 2018	DAUS	13.00 Put	500	27.4209	25.6602	0.0000	0.0000	0	0.00
Dec 2018	DAUS	13.80 Put	1,000	107.1260	92.2796	0.0000	0.0000	0	0.00
Dec 2018	DAUS	14.22 Call	500	924.4857	1004.8005	0.0000	0.0000	0	0.00
Dec 2018	DAUS	14.25 Put	250	227.2314	200.3383	0.0000	0.0000	0	0.00
Dec 2018	DAUS	14.96 Put	250	564.4406	513.1893	0.0000	0.0000	0	0.00
Dec 2018	DAUS	16.93 Call	500	118.4628	134.1101	0.0000	0.0000	0	0.00
Dec 2018	DAUS	17.58 Call	500	73.0930	83.4308	0.0000	0.0000	0	0.00
Jan 2019	DAUS	12.66 Put	263	22.1952	21.0053	0.0000	0.0000	0	0.00
Jan 2019	DAUS	13.00 Put	500	43.8919	40.0748	0.0000	0.0000	0	0.00
Jan 2019	DAUS	14.25 Put	250	281.1609	250.7069	0.0000	0.0000	0	0.00
Jan 2019	DAUS	14.38 Call	500	941.4652	1011.3532	0.0000	0.0000	0	0.00
Jan 2019	DAUS	15.13 Call	250	584.9262	633.4561	0.0000	0.0000	0	0.00
Feb 2019	DAUS	13.00 Put	500	57.7083	52.9921	0.0000	0.0000	0	0.00
Feb 2019	DAUS	14.25 Put	250	324.6386	290.5538	0.0000	0.0000	0	0.00
Feb 2019	DAUS	14.52 Call	500	962.3627	1025.5857	0.0000	0.0000	0	0.00
Feb 2019	DAUS	15.27 Call	250	631.3680	676.3758	0.0000	0.0000	0	0.00
Mar 2019	DAUS	14.00 Put	50,000	274.4549	243.4950	0.0000	0.0000	0	0.00
Mar 2019	DAUS	13.00 Put	500	69.7003	63.8807	0.0000	0.0000	0	0.00
Mar 2019	DAUS	14.25 Put	250	364.7340	327.6858	0.0000	0.0000	0	0.00
Mar 2019	DAUS	14.67 Call	500	982.6945	1040.3216	0.0000	0.0000	0	0.00
Mar 2019	DAUS	15.43 Call	250	669.1721	711.3240	0.0000	0.0000	0	0.00
Apr 2019	DAUS	13.00 Put	3,000	81.7100	72.7535	0.0000	0.0000	0	0.00
Apr 2019	DAUS	13.49 Call	2,500	1840.9494	1929.2713	0.0000	0.0000	0	0.00
Apr 2019	DAUS	14.25 Put	250	400.6525	362.0942	0.0000	0.0000	0	0.00
Apr 2019	DAUS	14.84 Call	500	1000.9942	1054.8891	0.0000	0.0000	0	0.00
Apr 2019	DAUS	15.61 Call	250	704.4243	744.2153	0.0000	0.0000	0	0.00
May 2019	DAUS	13.00 Put	500	89.9664	76.7245	0.0000	0.0000	0	0.00
May 2019	DAUS	14.25 Put	250	432.3647	393.2031	0.0000	0.0000	0	0.00
May 2019	DAUS	15.01 Call	500	1018.6929	1069.1280	0.0000	0.0000	0	0.00
May 2019	DAUS	15.79 Call	250	735.9045	773.6951	0.0000	0.0000	0	0.00
Jun 2019	DAUS	14.72 Put	20,000	666.1075	612.7580	0.0000	0.0000	0	0.00
Jun 2019	DAUS	17.22 Call	20,000	460.7434	483.6938	0.0000	0.0000	0	0.00
Jun 2019	DAUS	13.00 Put	500	92.8399	83.5306	0.0000	0.0000	0	0.00
Jun 2019	DAUS	14.25 Put	250	459.3906	418.7940	0.0000	0.0000	0	0.00
Jun 2019	DAUS	15.17 Call	500	1032.4536	1081.1896	0.0000	0.0000	0	0.00
Jun 2019	DAUS	15.96 Call	250	760.5162	796.8325	0.0000	0.0000	0	0.00
Jul 2019	DAUS	13.45 Put	39,250	195.4448	172.7621	0.0000	0.0000	0	0.00

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Jul 2019	DAUS	16.44 Call	39,250	647.9727	677.7577	0.0000	0.0000	0	0.00		
Jul 2019	DAUS	13.00 Put	500	108.8325	86.9822	0.0000	0.0000	0	0.00		
Jul 2019	DAUS	14.25 Put	250	487.7878	446.6808	0.0000	0.0000	0	0.00		
Jul 2019	DAUS	15.34 Call	500	1057.5914	1104.4878	0.0000	0.0000	0	0.00		
Jul 2019	DAUS	16.14 Call	250	793.9020	828.9990	0.0000	0.0000	0	0.00		
Aug 2019	DAUS	14.48 Put	3,950	595.8871	550.1118	0.0000	0.0000	0	0.00		
Aug 2019	DAUS	16.35 Call	3,950	769.6996	802.2279	0.0000	0.0000	0	0.00		
Aug 2019	DAUS	13.00 Put	500	118.8093	93.4496	0.0000	0.0000	0	0.00		
Aug 2019	DAUS	14.25 Put	250	511.4563	470.6847	0.0000	0.0000	0	0.00		
Aug 2019	DAUS	15.52 Call	500	1070.5170	1116.8156	0.0000	0.0000	0	0.00		
Aug 2019	DAUS	16.33 Call	250	816.6577	849.9560	0.0000	0.0000	0	0.00		
Sep 2019	DAUS	19.00 Call	20,000	389.2713	400.2374	0.0000	0.0000	0	0.00		
Sep 2019	DAUS	13.00 Put	500	129.5258	105.7206	0.0000	0.0000	0	0.00		
Sep 2019	DAUS	14.25 Put	250	533.1799	491.3807	0.0000	0.0000	0	0.00		
Sep 2019	DAUS	15.68 Call	500	1092.2103	1136.9223	0.0000	0.0000	0	0.00		
Sep 2019	DAUS	16.50 Call	250	844.9817	877.1683	0.0000	0.0000	0	0.00		
Oct 2019	DAUS	13.00 Put	500	145.1543	115.8001	0.0000	0.0000	0	0.00		
Oct 2019	DAUS	14.25 Put	250	554.3755	512.3469	0.0000	0.0000	0	0.00		
Oct 2019	DAUS	15.87 Call	500	1111.5546	1154.3299	0.0000	0.0000	0	0.00		
Oct 2019	DAUS	16.70 Call	250	872.3875	903.4780	0.0000	0.0000	0	0.00		
Nov 2019	DAUS	13.00 Put	500	159.3379	128.8691	0.0000	0.0000	0	0.00		
Nov 2019	DAUS	14.25 Put	250	572.9656	530.2750	0.0000	0.0000	0	0.00		
Nov 2019	DAUS	16.03 Call	500	1137.8773	1178.6254	0.0000	0.0000	0	0.00		
Nov 2019	DAUS	16.87 Call	250	903.4946	933.3072	0.0000	0.0000	0	0.00		
Dec 2019	DAUS	13.00 Put	500	171.5957	143.1455	0.0000	0.0000	0	0.00		
Dec 2019	DAUS	14.25 Put	250	590.8940	547.9267	0.0000	0.0000	0	0.00		
Dec 2019	DAUS	16.21 Call	500	1164.3514	1203.0821	0.0000	0.0000	0	0.00		
Dec 2019	DAUS	17.05 Call	250	937.6539	966.0529	0.0000	0.0000	0	0.00		
			<u>819,603</u>					<u>0.00</u>	<u>0.00</u>	<u>20 886 410.00</u>	<u>0.00</u>
<b>Total</b>			<b>949,260</b>					<b>0.00</b>	<b>0.00</b>	<b>31 603 316.00</b>	<b>131 187 232 234.50</b>
<b>Future</b>											
Dec 2018	EUUS	Future	40	1.1532	1.1532	0.0000	0.0000	0	0.00		
			<u>40</u>					<u>0.00</u>	<u>0.00</u>	<u>744 445.00</u>	<u>8 445 126 755.00</u>
<b>Total</b>			<b>40</b>					<b>0.00</b>	<b>0.00</b>	<b>744 445.00</b>	<b>8 445 126 755.00</b>
<b>Future</b>											
Dec 2018	GBUS	Future	30	1.3129	1.3105	0.0000	0.0000	0	0.00		
			<u>30</u>					<u>0.00</u>	<u>0.00</u>	<u>169 421.00</u>	<u>2 180 058 224.00</u>
<b>Total</b>			<b>30</b>					<b>0.00</b>	<b>0.00</b>	<b>169 421.00</b>	<b>2 180 058 224.00</b>

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Dec 2018	ZAAD	Future	36,597	10.5465	10.6087	10.7235	10.5438	147	1,558,384.20		
Mar 2019	ZAAD	Future	420	10.6907	10.7547	10.6880	10.6880	100	1,068,800.00		
Jun 2019	ZAAD	Future	4,929	10.8310	10.8977	0.0000	0.0000	0	0.00		
			<u>41,946</u>					<u>247.00</u>	<u>2,627,184.20</u>	<u>3 739 129.00</u>	<u>32 584 161 215.80</u>
	<b>Total</b>		<b>41,946</b>					<b>247.00</b>	<b>2,627,184.20</b>	<b>3 771 506.00</b>	<b>32 584 161 215.80</b>
<b>Future</b>											
Dec 2018	ZACA	Future	600	11.4985	11.5765	0.0000	0.0000	0	0.00		
			<u>600</u>					<u>0.00</u>	<u>0.00</u>	<u>137 653.00</u>	<u>1 355 055 071.60</u>
	<b>Total</b>		<b>600</b>					<b>0.00</b>	<b>0.00</b>	<b>137 653.00</b>	<b>1 355 055 071.60</b>
<b>Future</b>											
Dec 2018	ZADK	Future	240	2.3233	2.3401	0.0000	0.0000	0	0.00		
			<u>240</u>					<u>0.00</u>	<u>0.00</u>	<u>12 335.00</u>	<u>265 809 909.00</u>
	<b>Total</b>		<b>240</b>					<b>0.00</b>	<b>0.00</b>	<b>12 335.00</b>	<b>265 809 909.00</b>
<b>Future</b>											
Dec 2018	ZAEU	Future	110,475	17.1761	17.2974	17.4684	17.2313	537	9,259,145.40		
Mar 2019	ZAEU	Future	36,671	17.5378	17.6613	17.6544	17.6544	25	441,360.00		
Jun 2019	ZAEU	Future	5,256	17.8804	18.0093	0.0000	0.0000	0	0.00		
Sep 2019	ZAEU	Future	6,834	18.2597	18.3932	0.0000	0.0000	0	0.00		
			<u>159,236</u>					<u>562.00</u>	<u>9,700,505.40</u>	<u>15 577 558.00</u>	<u>223 961 348 464.90</u>
<b>Option</b>											
Mar 2019	ZAEU	15.60 Put	462	117.8718	106.4482	0.0000	0.0000	0	0.00		
Mar 2019	ZAEU	16.00 Call	650	1726.8405	1826.3467	0.0000	0.0000	0	0.00		
Mar 2019	ZAEU	17.33 Put	462	710.2735	649.7573	0.0000	0.0000	0	0.00		
Mar 2019	ZAEU	19.65 Call	462	306.2063	327.2575	0.0000	0.0000	0	0.00		
			<u>2,036</u>					<u>0.00</u>	<u>0.00</u>	<u>10 794 564.00</u>	<u>0.00</u>
	<b>Total</b>		<b>161,272</b>					<b>562.00</b>	<b>9,700,505.40</b>	<b>26 372 122.00</b>	<b>223 961 348 464.90</b>
<b>Future</b>											
Dec 2018	ZAFR	Future	1,748	15.0741	15.1942	15.0741	15.0741	100	1,507,410.00		
Jun 2019	ZAFR	Future	150	15.7255	15.8537	0.0000	0.0000	0	0.00		
			<u>1,898</u>					<u>100.00</u>	<u>1,507,410.00</u>	<u>620 576.00</u>	<u>6 667 908 161.60</u>
	<b>Total</b>		<b>1,898</b>					<b>100.00</b>	<b>1,507,410.00</b>	<b>620 576.00</b>	<b>6 667 908 161.60</b>
<b>Future</b>											
Dec 2018	ZAGB	Future	439,892	19.5540	19.6578	19.8050	19.6044	504	9,881,165.00		
Mar 2019	ZAGB	Future	6,644	19.8936	19.9986	0.0000	0.0000	0	0.00		
Jun 2019	ZAGB	Future	5,856	20.2101	20.3202	0.0000	0.0000	0	0.00		
Sep 2019	ZAGB	Future	10,363	20.5564	20.6711	0.0000	0.0000	0	0.00		

DATE	CONTRACT		OPEN INT	MTM	PREV MTM	HIGH	LOW	DAILY VOLUME	CUMULATIVE VOLUME		
			462,755					504.00	9,881,165.00	12 813 087.00	217 974 413 838.20
<b>Option</b>											
	Dec 2018	ZAGB	19.30 Call	200	735.2880	0.0000	0.0000	200	0.00		
	Dec 2018	ZAGB	21.00 Call	400	193.4125	0.0000	0.0000	400	0.00		
	Mar 2019	ZAGB	18.00 Put	500	239.7363	223.6613	0.0000	0	0.00		
	Mar 2019	ZAGB	20.00 Call	500	901.2148	957.6011	0.0000	0	0.00		
	Mar 2019	ZAGB	21.44 Call	500	453.9316	489.1924	0.0000	0	0.00		
			2,100					600.00	0.00	1 776 213.00	0.00
	<b>Total</b>		<b>464,855</b>					<b>1,104.00</b>	<b>9,881,165.00</b>	14 589 300.00	217 974 413 838.20
<b>Future</b>											
	Dec 2018	ZAJY	Future	6,905	0.1322	0.1332	0.0000	0	0.00		
				6,905				0.00	0.00	1 021 902.00	11 470 576 312.50
	<b>Total</b>		<b>6,905</b>					<b>0.00</b>	<b>0.00</b>	1 021 902.00	11 470 576 312.50
<b>Future</b>											
	Jun 2019	ZAKS	Future	2,166	0.1453	0.1469	0.0000	0	0.00		
				2,166				0.00	0.00	38 066.00	515 662 000.00
	<b>Total</b>		<b>2,166</b>					<b>0.00</b>	<b>0.00</b>	38 066.00	515 662 000.00
<b>Future</b>											
	Dec 2018	ZATR	Future	12,000	2.3315	2.3420	0.0000	0	0.00		
				12,000				0.00	0.00	383 239.00	1 228 466 169.00
	<b>Total</b>		<b>12,000</b>					<b>0.00</b>	<b>0.00</b>	383 239.00	1 228 466 169.00
<b>Future</b>											
	Dec 2018	ZAUM	Future	337	14.8941	14.9997	0.0000	0	0.00		
	Mar 2019	ZAUM	Future	10	15.0780	15.1849	0.0000	0	0.00		
				347				0.00	0.00	153 038.00	176 882 116 960.00
	<b>Total</b>		<b>347</b>					<b>0.00</b>	<b>0.00</b>	157 561.00	176 882 116 960.00
<b>Future</b>											
	Dec 2018	ZAUS	Future	859,141	14.8941	14.9997	15.1967	56,946	855,406,606.50		
	Mar 2019	ZAUS	Future	45,351	15.0780	15.1849	15.3355	1,803	27,445,882.00		
	Jun 2019	ZAUS	Future	18,950	15.2494	15.3596	0.0000	10	154,636.00		
	Sep 2019	ZAUS	Future	20,642	15.4335	15.5472	0.0000	0	0.00		
	Mar 2020	ZAUS	Future	3,966	15.8225	15.9351	0.0000	0	0.00		
			948,050					58,759.00	883,007,124.50	187 602 242.00	2 246 682 832 077.40
<b>Option</b>											
	Dec 2018	ZAUS	11.64 Put	2,764	1.9317	1.9466	0.0000	0	0.00		
	Dec 2018	ZAUS	11.75 Put	228,616	2.4481	2.4441	0.0000	0	0.00		

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Dec 2018	ZAUS	11.90 Put	11,300	3.3608	3.3148	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	12.00 Put	174,530	3.9176	4.0470	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	12.02 Put	5,500	4.0392	4.1652	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	12.10 Put	8,580	4.5642	4.6742	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	12.20 Put	7,300	5.3171	5.3983	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	12.25 Put	3,300	5.7389	5.8017	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	12.38 Put	39,589	6.9981	6.9970	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	12.50 Call	228,616	2402.5041	2508.0191	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	12.50 Put	26,400	8.4041	8.3191	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	12.63 Put	39,589	10.2479	10.0370	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	12.68 Put	10,000	11.0607	10.7891	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	12.75 Put	1,000	12.3079	11.9388	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	12.95 Put	500	16.7043	15.9522	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.00 Call	6,000	1912.1302	2016.8535	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.00 Put	177,520	18.0302	17.1535	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.05 Put	1,500	19.4621	18.4459	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.10 Put	11,300	21.0074	19.8368	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.20 Call	7,100	1718.5775	1822.6457	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.22 Put	5,500	25.2373	23.6241	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.25 Call	10,000	1670.5226	1774.3802	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.25 Put	17,800	26.4226	24.6802	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.32 Put	13,650	29.4072	27.3342	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.33 Put	135,000	29.8606	27.7365	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.45 Call	500	1481.9669	1582.7527	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.45 Put	4,080	37.8669	33.0527	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.50 Call	228,616	1437.0657	1535.2610	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.50 Put	29,800	42.9657	35.5610	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.60 Put	66,000	54.7348	45.7671	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.68 Put	13,150	65.7902	55.4324	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.70 Put	7,300	68.7975	58.0729	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.75 Put	700	76.7612	65.0879	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.78 Call	100	1195.9553	1289.2881	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.79 Put	10,000	83.6062	71.1381	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.80 Call	3,264	1179.4857	1272.4135	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.80 Put	500	85.3857	72.7135	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.90 Put	35,000	104.7175	89.9106	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.95 Call	39,589	1059.5743	1149.2326	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.00 Call	20,200	1021.0898	1109.5698	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.00 Put	58,250	126.9898	109.8698	0.0000	0.0000	900	0.00
Dec 2018	ZAUS	14.10 Put	1,867	152.3814	132.7808	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.12 Put	4,372	157.8474	137.7315	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.13 Call	20,000	924.7307	1009.9539	0.0000	0.0000	0	0.00



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Dec 2018	ZAUS	14.15 Put	236,970	166.2947	145.3936	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.16 Put	36,200	169.3656	148.0112	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.20 Call	51,000	876.1546	958.5047	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.20 Put	13,650	182.0546	158.8047	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.24 Put	24,570	195.3243	170.1163	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.25 Call	51,000	842.8348	922.7263	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.30 Put	35,000	216.3314	188.9181	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.33 Call	100	791.4305	868.5794	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.33 Put	31,047	227.3305	198.8794	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.35 Call	500	778.9482	855.3995	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.35 Put	4,428	234.8482	205.6995	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.39 Put	1,000	250.3259	219.7699	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.40 Call	100,000	748.3886	823.0761	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.44 Call	11,300	724.6006	797.8653	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.50 Call	1,200	690.0228	761.1267	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.50 Put	15,500	295.9228	261.4267	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.51 Put	3,388	300.2890	265.4288	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.60 Call	84,900	635.3047	702.7714	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.60 Put	3,000	341.2047	303.0714	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.61 Call	1,500	630.0299	697.1316	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.62 Call	5,500	624.7909	691.5299	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.67 Call	5,000	599.1362	664.0463	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.67 Put	3,000	375.0362	334.3463	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.70 Call	70,000	584.1648	647.9793	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.74 Put	13,150	410.5927	367.3486	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.75 Call	127,100	559.9100	621.9018	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.75 Put	700	415.8100	372.2018	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.80 Call	400	536.5168	596.6907	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.80 Put	135,000	442.4168	396.9907	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.84 Call	1,000	518.4075	577.1390	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.85 Call	50,000	513.9656	572.3345	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.90 Put	35,000	498.1411	449.1208	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.00 Call	101,333	452.2190	504.2628	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.00 Put	30,700	558.1190	504.5628	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.01 Call	10,000	448.3899	500.0830	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.09 Call	500	418.8416	467.7798	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.10 Call	500	415.2823	463.8804	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.15 Call	27,030	397.9161	444.8384	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.20 Put	50	687.1528	626.8359	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.25 Put	500	721.1751	659.2521	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.30 Put	35,000	755.8582	692.3659	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.37 Call	4,372	329.5812	369.5561	0.0000	0.0000	0	0.00

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Dec 2018	ZAUS	15.46 Call	1,867	305.1264	342.4714	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.48 Call	29,600	299.9455	336.7262	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.50 Call	5,000	294.8566	331.0746	0.0000	0.0000	500	0.00
Dec 2018	ZAUS	15.50 Put	600	900.7566	831.3746	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.51 Call	24,570	292.3431	328.2844	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.59 Call	31,047	273.0241	306.8008	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.60 Call	500	270.7042	304.2165	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.61 Call	4,428	268.4048	301.6541	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.70 Call	7,500	248.3304	279.5633	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.73 Call	135,000	241.9187	272.5744	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.84 Put	2,000	1165.7250	1088.5458	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.85 Call	20,300	217.9209	246.1440	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.91 Call	121,970	206.8591	233.9112	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	16.00 Call	10,050	191.3480	216.7340	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	16.11 Call	38,250	174.0344	197.5164	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	16.14 Call	10,000	169.6058	192.5949	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	16.20 Call	2,000	161.1044	183.1368	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	16.24 Call	750	155.6913	177.1071	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	16.50 Call	1,000	124.2921	0.0000	0.0000	0.0000	1,000	0.00
Dec 2018	ZAUS	16.56 Call	13,650	117.8141	135.5061	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	16.80 Call	13,150	95.2258	110.0551	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	17.00 Call	3,700	79.9003	92.7037	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	10.33 Put	1,000	2.0157	1.8939	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	11.74 Put	1,000	8.4774	9.4829	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	12.47 Put	721	24.9427	24.6093	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	12.51 Put	720	26.9825	26.4343	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	12.90 Put	16,000	54.8335	50.8415	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	12.92 Put	139,342	56.7125	52.4688	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.00 Put	14,028	64.7399	59.4027	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.05 Put	1,155	70.1887	64.0959	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.12 Put	138,000	78.4019	71.1600	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.15 Put	10,125	82.1394	74.3691	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.25 Put	224,707	95.5837	85.9024	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.36 Put	134,750	112.2204	100.1582	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.46 Put	20,000	129.1345	114.6507	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.50 Put	50	136.3995	120.8763	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.55 Put	10,000	145.8951	129.0218	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.60 Put	4,000	155.8646	137.5755	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.68 Put	14,200	174.3891	152.1457	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.70 Put	2,500	179.2462	155.9700	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.72 Put	10,000	184.1936	160.4784	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.75 Put	17,981	191.7851	167.4062	0.0000	0.0000	0	0.00

<u>DATE</u>	<u>CONTRACT</u>		<u>OPEN INT</u>	<u>MTM</u>	<u>PREV MTM</u>	<u>HIGH</u>	<u>LOW</u>	<u>DAILY VOLUME</u>	<u>CUMULATIVE VOLUME</u>
Mar 2019	ZAUS	13.79 Put	262,812	202.2278	176.9548	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.86 Put	721	221.3948	194.5338	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.90 Put	720	232.8631	205.0826	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.00 Put	16,000	263.1934	233.0842	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.04 Put	7,100	275.9981	244.9448	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.20 Put	2,000	331.0966	296.2201	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.28 Put	7,028	360.9883	324.1816	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.30 Call	1,000	1146.7059	1216.3156	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.35 Put	139,342	388.4387	349.9244	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.44 Put	7,000	427.7173	384.7853	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.48 Call	1,000	1043.8388	1106.5588	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.50 Call	224,707	1033.0536	1095.2789	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.50 Put	10,050	455.0536	410.3789	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.53 Put	108	469.0632	423.6571	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.56 Put	138,000	483.2987	437.1618	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.65 Put	10,000	527.3495	479.0509	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.74 Put	24,326	573.3736	522.9618	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.82 Put	4,145	615.9072	563.6564	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.83 Put	10,010	621.3280	568.8482	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.84 Put	134,750	626.7759	574.0677	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.96 Call	17,981	811.9030	863.4338	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.04 Put	77,255	740.4417	683.3485	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.10 Put	1,000	776.2528	717.9014	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.12 Put	99,824	788.3329	729.5958	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.13 Put	7,100	794.4043	735.4755	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.17 Call	720	726.8977	774.1054	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.19 Put	41,300	831.2678	771.2002	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.20 Put	2,500	837.4834	777.2293	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.32 Put	262,812	913.6265	850.8883	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.45 Call	20,000	627.2520	668.8364	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.46 Call	108	623.9685	665.3615	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.50 Call	224,757	611.0148	651.6422	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.52 Call	1	604.6452	644.8983	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.54 Call	721	598.3461	638.2240	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.66 Call	139,342	561.9925	599.6955	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.81 Call	10	519.8793	555.0125	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.89 Call	4,145	498.9039	532.6733	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.00 Call	10,000	471.6835	503.6709	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.13 Call	138,000	441.6528	471.8113	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.30 Call	10,000	405.6405	433.5714	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.38 Call	134,750	389.8810	416.8318	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.58 Call	10,000	353.5419	378.2006	0.0000	0.0000	0	0.00

<u>DATE</u>	<u>CONTRACT</u>		<u>OPEN INT</u>	<u>MTM</u>	<u>PREV MTM</u>	<u>HIGH</u>	<u>LOW</u>	<u>DAILY VOLUME</u>	<u>CUMULATIVE VOLUME</u>
Mar 2019	ZAUS	16.60 Call	50	350.1258	374.5775	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.96 Call	12,600	290.5958	312.8973	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.97 Call	63,500	289.1078	311.3241	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	17.02 Call	262,812	281.8093	303.5940	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	17.08 Call	7,028	273.3193	294.5990	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	17.09 Call	106,824	271.9329	293.1293	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	17.10 Call	2,500	270.5545	291.6711	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	17.23 Call	41,300	253.3315	273.4124	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	17.30 Call	10,125	244.5735	264.1258	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	17.50 Call	16,000	221.4006	239.5357	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	18.00 Call	14,200	173.8030	188.9354	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	18.40 Call	7,100	149.5934	160.4016	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	10.69 Put	1,000	8.6409	165.3012	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	12.28 Put	1,000	18.5827	462.2574	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	12.75 Put	1,000	56.5659	592.7810	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	12.98 Put	911	88.0004	664.4324	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	13.00 Put	8,203	91.2044	670.9084	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	13.24 Put	30,000	136.0454	751.7094	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	13.83 Put	25,000	297.7440	974.7709	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	13.88 Put	6,250	313.5308	995.2759	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	13.98 Call	1,000	1616.0355	2416.6357	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	14.42 Call	30	1346.0538	2172.1974	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	14.58 Call	1,000	1259.7555	2088.0464	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	14.63 Put	8,203	615.1239	1332.6620	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	14.82 Call	30,000	1143.2572	1966.4910	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	15.55 Call	25,000	852.1029	1630.2862	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	15.62 Call	6,250	828.4629	1600.6202	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	15.80 Call	1,000	770.9750	1526.3356	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	15.92 Call	911	735.1655	1478.3897	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	16.00 Call	20	712.3546	1447.1161	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	17.96 Call	8,203	341.5092	837.0973	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	10.75 Put	1,000	12.6182	12.2466	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	12.50 Put	1,000	50.2511	35.5040	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	13.91 Put	81,930	394.0611	355.6928	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	13.97 Put	800	415.3050	379.1952	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	14.09 Put	33,715	459.7697	422.5711	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	14.14 Put	141,127	479.0743	440.6096	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	14.21 Put	2,700	506.8677	466.6108	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	14.33 Put	33,151	556.5802	513.2270	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	14.72 Put	1,200	736.2498	682.2598	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	15.38 Put	5,000	1112.7397	1046.8757	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	15.55 Call	30,000	1102.8863	1149.4571	0.0000	0.0000	0	0.00

<u>DATE</u>	<u>CONTRACT</u>		<u>OPEN INT</u>	<u>MTM</u>	<u>PREV MTM</u>	<u>HIGH</u>	<u>LOW</u>	<u>DAILY VOLUME</u>	<u>CUMULATIVE VOLUME</u>		
Sep 2019	ZAUS	15.56 Put	2,571	1225.7415	1158.4345	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	15.87 Call	1,000	992.7269	1033.9668	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	17.23 Call	800	650.3710	675.3156	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	17.64 Call	5,000	575.1163	597.1731	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	17.85 Call	2,700	540.9019	561.6636	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	17.93 Call	2,571	528.5729	548.8666	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	18.29 Call	81,930	477.4942	495.8637	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	18.47 Call	1,200	454.4447	471.9482	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	18.63 Call	33,715	437.2537	452.0093	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	18.67 Call	141,127	433.6209	447.7115	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	19.32 Call	33,151	382.0046	394.4488	0.0000	0.0000	0	0.00		
Dec 2019	ZAUS	11.89 Put	1,000	45.3842	40.1287	0.0000	0.0000	0	0.00		
Dec 2019	ZAUS	13.66 Put	1,000	350.6326	310.5602	0.0000	0.0000	0	0.00		
Dec 2019	ZAUS	17.38 Call	1,000	822.7177	848.7846	0.0000	0.0000	0	0.00		
Dec 2019	ZAUS	20.00 Call	2,000	493.5103	499.5577	0.0000	0.0000	0	0.00		
			<u>7,860,094</u>					<u>2,400.00</u>	<u>0.00</u>	<u>60 282 143.00</u>	<u>0.00</u>
		<b>Total</b>	<b>8,808,144</b>					<b>61,159.00</b>	<b>883,007,124.50</b>	<b>247 884 385.00</b>	<b>2 246 682 832 077.40</b>

<b>Grand Total</b>	<b>10,568,385</b>							<b>63,172.00</b>	<b>906 723 389.10</b>	<b>338,364,877</b>	<b>3,116,783,857,492.12</b>
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